

of his industry and patience, his powers of observation, and his happy manner of portraying the subject of his thoughts. At the time of his death, he was engaged in an investigation of the origin of some of the cultivated plants, and their subsequent distribution by human agency over the world. These researches, which, in the opinion of those competent to decide, are of high value, it is hoped, may yet be given to the public.

Mr. C. J. Sprague read a paper entitled "Contributions to New England Mycology," as follows : —

CONTRIBUTIONS TO NEW ENGLAND MYCOLOGY.

BY C. J. SPRAGUE.

I was requested, last year, by the Rev. Dr. M. A. Curtis, of South Carolina, to pay some attention to the Fungi of this locality, as few collections had been made in our Northeastern States, which offer to the Mycologist a comparatively unexplored field. I began to collect specimens, as my leisure would allow, and I have gathered, during the year, over four hundred species. Some of these are very common ; some, already known in Europe and at the South, have been detected here now for the first time ; others are new to science. I have been cordially assisted in my researches by Mr. Dennis Murray, to whom the study of Mycology has been long familiar, and who has discovered many rare species. Our united collections have all passed under the examination of Dr. Curtis, and have been named by him. Whatever scientific exactness the subjoined list may display is entirely due to him.

The list contains the names of such species only as have been determined beyond doubt. Many others yet remain for verification and description. I have included also a few species communicated to me by Dr. Curtis and the Rev. Mr. J. L. Russell, of Salem. The list comprises but a fraction of New England Fungi ; but it is laid before you to supply, though partially, a void in this branch of knowledge. If circumstances shall allow, I hope to make extensive additions through future researches.

When not otherwise stated the species were all collected near Boston.

ORDER I. HYMENOMYCETES.

SUB-ORDER I. *Agaricini*, Fr.

Agaricus, L.

- A. laccatus, Scop.
 A. conigenus, Pers.
 A. galericulatus, Scop. So. Paris, Me.
 A. epipterygius, Scop.
 A. campanella, Batsch.
 A. salignus, P.
 A. applicatus, Batsch.
 A. geophyllus, Bull.
 A. semiorbicularis, Bull.
 A. tener, Schaeff. Portland, Me.
 A. variabilis, P.
 A. semiglobatus, Batsch.
 A. campestris, L.
 A. sublateritius, Schaeff.
 A. campanulatus, L. Portland, Me.

Coprinus, Pers.

- C. comatus, Batt.
 C. micaceus, Bull. D. Murray.

*Cortinari*us, Fr.

- C. cinnamomeus, L.

Paxillus, Fr.

- P. porosus, Berk. D. Murray.

Hygrophorus, Fr.

- H. cinnabarinus, Fr. So. Paris, Me.

Lactarius, P.

- L. piperatus, L.
 L. vellereus, Fr.

Russula, Fr.

- R. alutacea, Fr.

Cantharellus, Adans.

- C. cibarius, Fr.
 C. aurantiacus, Wulf.
 C. tubæformis, Fr. Portland, Me.
 C. infundibuliformis, Scop. So. Paris, Me.
 C. crispus, P.

Nyctalis, Fr.

- N. asterophora, Fr. D. Murray.

Marasmius, Fr.

- M. rotula, Scop.

- M. opacus, B. & C.

- M. archyropus, Fr.

Panus, Fr.

- P. dorsalis, Fr. Portland, Me. E. S. Morse.
 P. stipticus, Bull.

Schizophyllum, Fr.

- S. commune, Fr.

Lenzites, Fr.

- L. betulina, Fr.
 L. striata, Fr. D. Murray.
 L. corrugata.
 L. Klotsehii, Berk.
 L. abietina, Bull. D. Murray.

SUB-ORDER II. *Polyporei*, Fr.

Boletus, Dill.

- B. granulatus, L. D. Murray.
 B. strobilaceus, Scop.

Polyporus, Mich.

- P. brumalis, Fr.
 P. perennis, Fr.
 P. squamosus, Huds. Portland, Me.
 P. elegans, Fr. do.
 P. lucidus, Fr. do.
 P. Curtisii, Berk. D. Murray.
 P. giganteus, P.
 P. sulphureus, Bull.
 P. cupulæformis, B. & C. D. Murray.
 P. adustus, Fr. Portland, Me. E. S. Morse.
 P. hispidus, Bolt. D. Murray.
 P. conchifer, Schw. D. Murray.
 P. betulinus, Bull.
 P. scutellatus, Schw.
 P. applanatus, Pers. Portland, Me.
 P. fomentarius, L. do.
 P. ribis, Fr. D. Murray.
 P. ulmarius, Fr.
 P. cinnabarinus, Fr. Bethel, Me.
 P. hirsutus, Wulf. D. Murray.
 P. versicolor, L.
 P. abietinus, Fr.

P. pergamenus, Fr.
P. ferruginosus, Schrad.
P. incarnatus, P. D. Murray.
P. sinuosus, Fr.
P. Sartwellii, B. & C. ined. D. Murray.

Trametes, Fr.

T. sepium, Berk. D. Murray.

Dædalea, Pers.

D. unicolor, Fr.

Favolus, Fr.

F. Europæus, Fr.

Merulius, Hall.

M. tremellosus, Schrad. D. Murray.
M. lacrymans, Wulf. Portland. E. S. Morse.

SUB-ORDER III. *Hydnei*, Fr.

Fistulina, Bull.

F. hepatica, Schaeff. D. Murray.

Hydnum, L.

H. imbricatum, L. D. Murray.
H. subsquamosum, Batsch.
H. zonatum, Bats. R. I. A. Metcalf.
H. repandum, L. So. Paris, Me.
H. compactum, Fr. D. Murray.
H. aurantiacum, Alb. & Schw.
H. adustum, Schw.
H. coralloides, Scop. White Mountains. Oakes.
H. ochraceum, Pers.
H. mucidum, Pers.
H. farinaceum, Pers.

Irpex, Fr.

I. sinuosus, Fr.
I. cinnamomeus, Fr.

Phlebia, Fr.

P. radiata, Fr. Portland. E. S. Morse.
P. rubiginosa, Berk. & Rav.

Kneiffia, Fr.

K. setigera, Fr.

SUB-ORDER IV. *Auricularini*, Fr.

Craterellus, Fr.

C. cornucopioides, L.

Thelephora, Ehr.

T. caryophyllæa, Fr.
T. multipartita, Schw. D. Murray.
T. palmata, Fr. D. Murray.
T. pallida, Schw.
T. pteruloides, B. & C. D. Murray.

Stereum, Lk.

S. fasciatum, Schw.
S. complicatum, Fr.
S. Curtisii, Berk.
S. purpureum, Pers.
S. ochraceo-flavum, Schw.
S. hirsutum, Wild.
S. rubiginosum, Schrad.
S. frustulosum, Fr.
S. rugosum, Fr. So. Paris, Me.

Corticium, Fr.

C. læve, Pers.
C. cinereum, Fr. D. Murray.
C. incarnatum, Fr. Rev. J. L. Russell.
C. polygonium, Fr.
C. corrugatum, Fr.
C. Oakesii, B. & C. D. Murray.

Guepinia, Fr.

G. spatularia, Fr.

Cyphella, Fr.

C. fasciculata, B. & C.

SUB-ORDER V. *Clavati*.

Clavaria, L.

C. cristata, Holmsk.
C. inæqualis, Fr. White Mountains. Oakes.
C. contorta, Holms.
C. fusiformis, Sow. D. Murray.
C. mucida, Pers. D. Murray.

Calocera, Fr.

C. cornea, Batsch.

SUB-ORDER VI. *Tremellini*.*Tremella*, Dill.*T. mesenterica*, Retz.*T. albida*, Huds. D. Murray.*Exidia*, Fr.*E. glandulosa*, Fr.*Dacrymyces*, Fr.*D. tortus*, Fr.

ORDER II. GASTEROMYCETES.

SUB-ORDER IV. *Trichogastres*.*Tulostoma*, P.*T. mammosum*, Fr. D. Murray.*Lycoperdon*, Tourn.*L. gemmatum*, Fr.*L. pyriforme*, Schaeff.*Geaster*, P.*G. hygrometricus*, P. D. Murray.*G. minimus*, Schw. D. Murray.*Bovista*, Dill.*B. nigrescens*, P.*Scleroderma*, P.*S. vulgare*, Fr.*Mitremyces*, Nees.*M. cinnabarinus*, Schw.*Leocarpus*, Lk.*L. vernicosus*, Lk.*Didymium*, P.*D. cinereum*, Batsch.*Physarum*, P.*P. aureum*, P.*Stemonitis*, Gled.*S. ferruginea*, Ehr.*Arcyria*, Hill.*A. incarnata*, P.*A. cinerea*, Fr.*Trichia*, Hall.*T. pyriformis*, Hoffm.*T. serotina*, Schrad.*T. turbinata*, With.*Licea*, Schrad.*L. fragiformis*, Bull.SUB-ORDER V. *Myxogastres*.*Lycogala*, Mich.*L. epidendron*, L.*L. parietinum*, Fr.*Æthidium*, Lk.*Æ. septicum*, L.SUB-ORDER VI. *Nidulariacei*.*Cyathus*, Hall.*C. striatus*, Hoffm. D. Murray.*C. campanulatus*, Sibth. D. Murray.*Crucibulum*, Tul.*C. vulgare*, Tul.ORDER III. CONIOMYCETES, *Fr.*SUB-ORDER I. *Sphaeronemei*, Corda.*Leptothyrium*, Kze.*L. punctiforme*, B. & C. ined. Stockbridge. M. A. Curtis.*Depazea*, Fr.*D. kalmicola*, Schw. Stockbridge. M. A. Curtis.*D. cruenta*, Kze. R. I. S. P. Olney.*Sphaeronema*, Fr.*S. seriatum*, B. & C. ined. D. Murray.*Sphaeropsis*, Lev.*S. mamillaris*, B. & C. ined. Cambridge. M. A. Curtis.*Vermicularia*, Tode.*V. dematium*, P.*V. oblonga*, Desm. D. Murray.

Asteroma, Dec.*A. pomigena*, Schw.SUB-ORDER II. *Melanconiei*, Corda.*Melanconium*, Lk.*M. ovatum*, Lk. Stockbridge. M. A. Curtis.*Micropera*, Lév.*M. drupacearum*, Lév. D. Murray.*Melasmia*, Lév.*M. ulmicola*, B. & C. ined. Stockbridge, M. A. Curtis.*Cytispora*, Fr.*C. carbonacea*, Fr. J. L. Russell.*Myxosporium*, Lk.*M. nitidum*, B. & C.*Næmaspora*, P.*N. aurea*, Fr. Portland. E. S. Morse.*N. crocea*, P. J. L. Russell.*Discella*, B. & Broome.*D. obscura*, B. & C. ined. Stockbridge, M. A. Curtis.*Coryneum*, Kze.*C. pulvinatum*, Kze. So. Paris, Me.SUB-ORDER IV. *Torulacei*, Corda.*Sporidesmium*, Lk.*S. lepraria*, B. & Broome. Stockbridge. M. A. Curtis.*Spilocæa*, Fr.*S. fructigena*, Schw.SUB-ORDER V. *Pucciniæi*.*Aregma*, Fr.*A. mucronatum*, Fr. Stockbridge. M. A. Curtis.*Puccinia*, P.*P. graminis*, D. C.*P. junci*, Schw.*Podisoma*, Lk.*P. juniperi*, Lk.*P. macropus*, Schw.SUB-ORDER VI. *Cœomacei*, Corda.*Uromyces*, Lev.*U. Lespedezæ violacææ*, Schw. J. L. Russell.*Uredo*, P.*U. Ari Virginici*, Schw. Stockbridge. M. A. Curtis.*U. nitens*, Schw.*U. pyrolæ*, Lk. Rhode Island. Mr. Olney.*Epitea*, Fr.*E. miniata*, P.*Ustilago*, Lk.*U. segetum*, P.*Peridermium*, Lk.*P. pini*, P. White Mountains. P. P. James.*Ræstelia*, Reben.*R. lacerata*, Sow.*Æcidium*, P.*Æ. compositarum*, Schlecht.*Æ. aroidatum*, Schw. Stockbridge. M. A. Curtis.*Æ. berberidis*, P.

ORDER IV. HYPHOMYCETES.

SUB-ORDER I. *Isariacei*, Corda.*Capnodium*, Mont.*C. elongatum*, Berk. & Desm.*Ceratium*, A. & S.*C. hydroides*, Fr.SUB-ORDER II. *Stilbacei*.*Stilbum*, Tode.*S. lateritium*, Berk. D. Murray.*Tubercularia*, Tode.*T. vulgaris*, Tode.